

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321864

Luminaire Tested: **GAN-SA0D-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45689 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

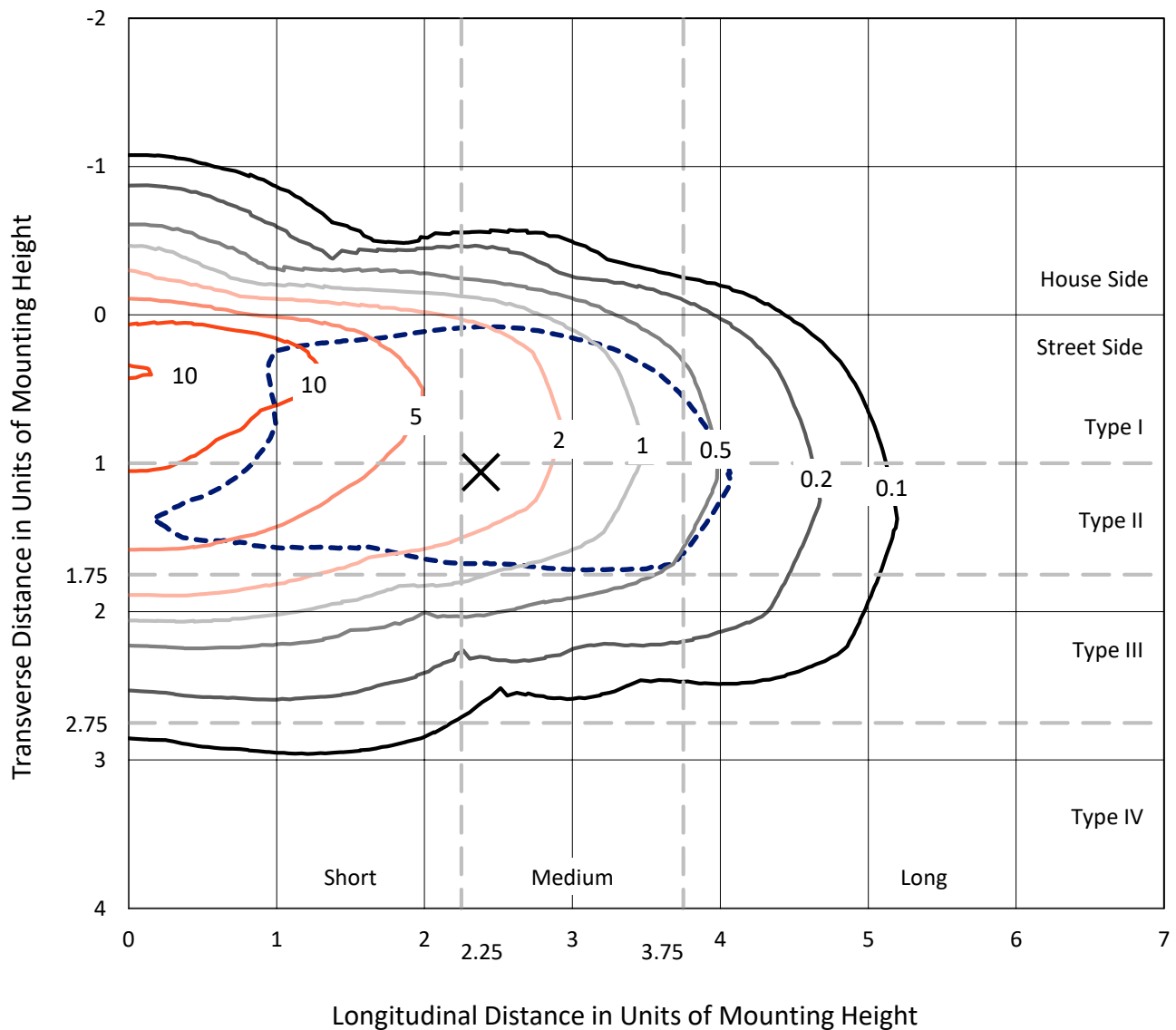


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Iso-Footcandle Lines of Horizontal Illumination

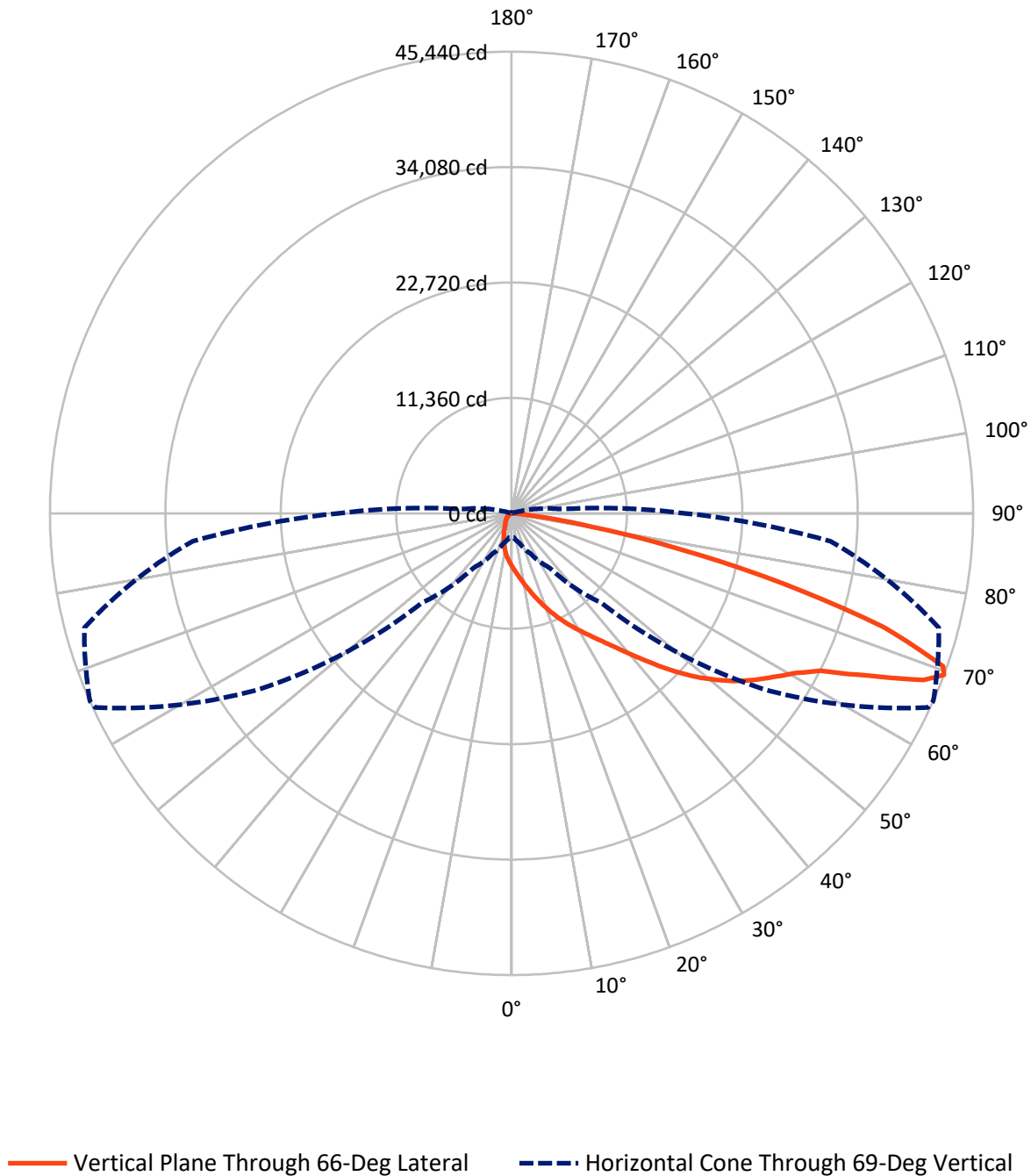
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2740.7	0.0	2740.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	42948.3	0.0	42948.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	45689.0	0.0	45689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.6	1.1
10°-20°	1495.8	3.3
20°-30°	2604.8	5.7
30°-40°	4570.1	10.0
40°-50°	7649.7	16.7
50°-60°	11244.4	24.6
60°-70°	11545.1	25.3
70°-80°	5699.5	12.5
80°-90°	376.9	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	45689.0	100.0
0°-180°	45689.0	100.0

Coefficient of Utilization



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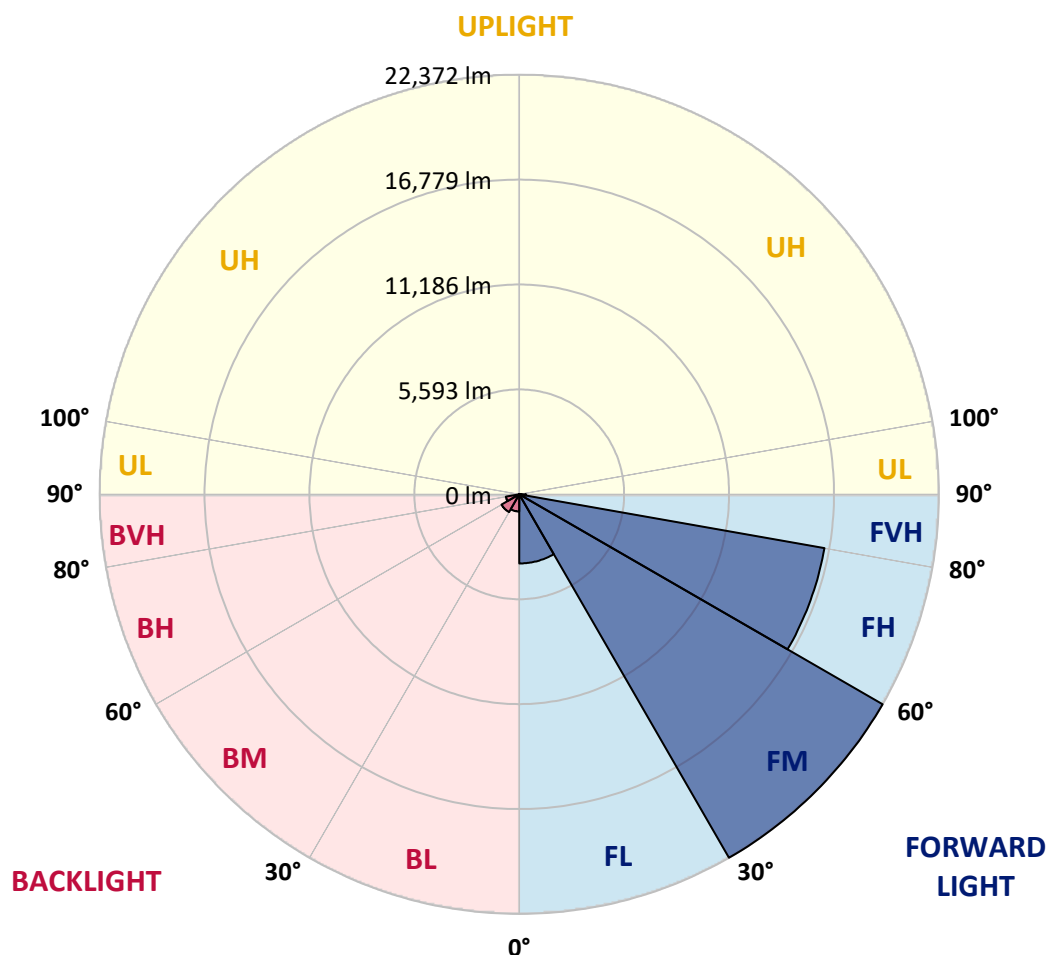
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3686.7	8.1			
FM	(30°-60°)	22371.5	49.0			
FH	(60°-80°)	16522.4	36.2			G5
FVH	(80°-90°)	367.7	0.8			G3/500
BL	(0°-30°)	916.6	2.0	B2/1000		
BM	(30°-60°)	1092.7	2.4	B2/2500		
BH	(60°-80°)	722.3	1.6	B2/1000		G2/1000
BVH	(80°-90°)	9.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6
2.5°	6119.7	6093.6	6082.8	6035.0	5952.6	5889.6	5768.1	5627.1	5601.0	5464.3	5297.2
5°	6913.9	6892.2	6877.0	6809.8	6725.1	6566.7	6345.4	6082.8	6032.9	5772.5	5438.3
7.5°	7467.3	7506.4	7506.4	7463.0	7356.6	7237.3	6966.0	6607.9	6545.0	6145.7	5627.1
10°	7790.7	7838.4	7875.3	7912.2	7897.0	7849.2	7593.2	7189.5	7113.6	6584.1	5846.2
12.5°	7821.0	7868.8	7972.9	8127.0	8276.8	8385.3	8224.7	7834.1	7747.2	7091.9	6106.7
15°	7651.8	7701.7	7862.3	8161.7	8524.1	8841.0	8893.1	8548.0	8459.0	7697.3	6432.2
17.5°	7356.6	7389.2	7619.2	8033.7	8602.3	9183.9	9498.5	9314.1	9231.6	8389.6	6794.6
20°	7137.5	7161.3	7363.1	7808.0	8554.5	9398.7	10071.4	10127.8	10041.0	9131.8	7187.4
22.5°	7512.9	7556.3	7562.8	7773.3	8424.3	9505.0	10574.9	10928.6	10863.5	9919.5	7573.6
25°	8539.3	8589.2	8424.3	8294.1	8535.0	9552.8	11006.7	11748.9	11696.8	10768.0	7962.1
27.5°	9895.6	9947.7	9735.1	9346.6	9114.4	9732.9	11390.8	12582.2	12580.1	11666.4	8380.9
30°	11228.1	11280.2	11063.2	10674.7	10140.9	10242.9	11722.9	13454.6	13467.6	12593.1	8825.8
32.5°	12625.6	12690.7	12467.2	11968.1	11410.4	11123.9	12189.4	14331.3	14405.1	13667.3	9327.1
35°	14214.1	14222.8	13908.2	13385.2	12742.8	12302.3	12938.1	15314.4	15490.2	14997.5	9962.9
37.5°	15772.3	15835.2	15577.0	14752.3	14162.1	13662.9	14051.4	16542.7	16792.2	16623.0	10794.1
40°	16926.8	17059.1	17022.2	16132.5	15572.6	15216.7	15433.7	18003.1	18320.0	18515.3	11842.2
42.5°	17651.6	17751.4	17920.7	17384.7	16876.9	16935.4	17065.7	19704.5	20095.1	20672.4	13046.6
45°	18482.7	18530.5	18671.5	18435.0	18092.1	18682.4	18797.4	21620.7	22030.8	22992.2	14383.4
47.5°	19498.3	19611.2	19650.2	19433.2	19277.0	20227.5	20466.2	23363.3	23938.4	25477.0	15798.3
50°	20791.7	20822.1	20889.4	20748.3	20592.1	21555.6	21963.6	25192.7	25715.7	27970.4	17193.7
52.5°	22056.9	22165.4	22399.8	22310.8	22247.8	22686.2	23298.2	26841.9	27425.7	30049.3	18586.9
55°	22421.5	22514.8	23324.2	23877.6	24389.7	24079.4	24574.2	28319.8	28951.3	31907.0	19928.0
57.5°	20965.3	21154.1	22556.0	23996.9	26121.5	26245.2	26327.6	29836.7	30403.1	33330.5	21323.4
60°	17284.8	17321.7	19622.0	22093.8	25835.0	28135.3	28888.3	31466.4	31941.7	34656.5	22994.4
62.5°	10993.7	11369.1	13893.0	17382.5	22805.6	27861.9	31985.1	33931.7	34105.3	36247.1	25390.1
65°	5236.4	5479.5	7298.0	10739.8	16518.8	24361.5	34122.6	38391.2	38469.3	39400.3	28591.0
67.5°	2899.3	3016.4	3882.3	5781.1	9656.9	17228.4	33258.9	43673.2	43747.0	42620.7	31399.1
69°	2267.8	2367.6	3049.0	4357.6	6547.2	12382.6	30097.1	45220.5	45439.7	43543.0	31499.0
70°	1924.9	2022.5	2625.8	3680.5	5264.7	9568.0	26789.9	44836.4	45068.6	43456.2	30754.6
72.5°	1178.4	1234.8	1749.1	2591.1	3528.6	4813.3	16521.0	37918.1	38310.9	39862.5	26431.8
75°	794.3	824.6	1093.7	1788.2	2523.8	2478.3	8582.7	26726.9	27577.6	31008.5	19522.2
77.5°	568.6	596.8	733.5	1156.7	1768.6	1636.3	3886.6	16609.9	16792.2	18597.7	10646.5
80°	323.3	349.4	518.7	687.9	1200.1	1091.6	1545.1	7933.9	8025.0	7975.1	3554.6
82.5°	169.3	191.0	284.3	453.6	770.4	714.0	642.3	2656.2	2669.2	2220.0	779.1
85°	32.6	39.1	141.1	310.3	397.1	310.3	262.6	622.8	635.8	562.1	193.1
87.5°	0.0	2.2	56.4	69.4	78.1	80.3	84.6	121.5	130.2	175.8	52.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6	5199.6
2.5°	5223.4	5145.3	4995.6	4822.0	4687.4	4555.0	4450.9	4342.4	4303.3	4283.8	4281.6
5°	5275.5	5110.6	4793.7	4468.2	4201.3	3949.6	3769.5	3598.0	3517.7	3480.8	3465.6
7.5°	5362.3	5097.6	4587.6	4090.6	3706.5	3391.9	3142.3	2955.7	2862.4	2823.3	2808.1
10°	5464.3	5080.2	4346.7	3691.3	3200.9	2875.4	2628.0	2443.5	2341.5	2298.1	2276.4
12.5°	5583.7	5049.8	4068.9	3287.7	2769.0	2443.5	2144.1	1916.2	1799.0	1749.1	1725.2
15°	5731.2	5019.4	3778.1	2907.9	2389.3	1992.1	1664.5	1510.4	1486.5	1477.8	1480.0
17.5°	5876.6	4971.7	3461.3	2532.5	1990.0	1556.0	1388.9	1380.2	1384.5	1384.5	1384.5
20°	6006.8	4863.2	3116.3	2211.3	1610.2	1312.9	1278.2	1263.0	1252.1	1243.5	1232.6
22.5°	6108.8	4717.8	2784.2	1892.3	1315.1	1202.2	1148.0	1100.2	1061.2	1035.1	1022.1
25°	6178.3	4524.7	2480.4	1586.3	1182.7	1093.7	996.1	915.8	855.0	818.1	802.9
27.5°	6230.4	4316.3	2209.2	1328.1	1091.6	967.9	839.8	744.3	681.4	648.9	635.8
30°	6267.2	4079.8	1970.4	1167.5	989.6	835.5	698.8	605.5	559.9	542.5	533.8
32.5°	6302.0	3817.2	1744.8	1091.6	894.1	714.0	585.9	514.3	486.1	464.4	457.9
35°	6388.8	3574.2	1529.9	1011.3	796.4	609.8	503.5	451.4	423.2	410.1	405.8
37.5°	6594.9	3394.0	1323.8	928.8	698.8	527.3	440.5	403.6	377.6	364.6	360.2
40°	6927.0	3302.9	1150.2	839.8	603.3	464.4	399.3	364.6	336.4	316.8	312.5
42.5°	7415.2	3315.9	1028.6	750.9	527.3	414.5	360.2	319.0	288.6	271.3	266.9
45°	8007.7	3411.4	944.0	664.0	464.4	375.4	316.8	273.4	245.2	230.0	225.7
47.5°	8650.0	3565.5	874.5	585.9	414.5	338.5	273.4	227.9	204.0	191.0	188.8
50°	9327.1	3715.2	802.9	510.0	371.1	301.6	230.0	188.8	169.3	158.4	154.1
52.5°	10012.8	3888.8	737.8	440.5	334.2	258.2	191.0	154.1	138.9	130.2	125.9
55°	10750.7	4019.0	674.9	386.3	297.3	219.2	158.4	128.0	115.0	104.2	102.0
57.5°	11618.7	4220.8	609.8	334.2	253.9	182.3	130.2	102.0	91.1	80.3	78.1
60°	12790.6	4457.4	540.4	295.1	208.3	149.7	106.3	82.5	69.4	60.8	58.6
62.5°	14335.7	4720.0	453.6	258.2	169.3	121.5	84.6	65.1	49.9	39.1	39.1
65°	16295.3	5147.5	371.1	217.0	138.9	99.8	65.1	47.7	28.2	17.4	17.4
67.5°	17438.9	5221.3	299.5	177.9	112.8	84.6	54.3	32.6	8.7	2.2	0.0
69°	17072.2	4793.7	253.9	151.9	97.7	80.3	49.9	23.9	4.3	0.0	0.0
70°	16382.1	4383.6	223.5	134.5	89.0	76.0	47.7	17.4	4.3	0.0	0.0
72.5°	13537.1	3120.6	169.3	99.8	65.1	67.3	43.4	10.9	4.3	0.0	0.0
75°	9860.9	1896.7	121.5	69.4	41.2	49.9	30.4	4.3	2.2	0.0	0.0
77.5°	5486.0	894.1	76.0	39.1	26.0	30.4	15.2	0.0	0.0	0.0	0.0
80°	1781.7	243.1	34.7	21.7	15.2	17.4	6.5	0.0	0.0	0.0	0.0
82.5°	329.9	69.4	19.5	10.9	4.3	4.3	0.0	0.0	0.0	0.0	0.0
85°	71.6	28.2	10.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.9	8.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)